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2, 3, 3 pt. 2, 5, 6, '8, 9. *Reports*: 1883, 1887 to 1889, 1891, 1895, 1906 to 1908.

Ohio Earthworks.

Geological Survey.—*Water Supply and Irrigation Papers*: Nos. 148, 153 to 232, 234, 235. *Bulletins*: Nos. 269, 275, 277 to 301, 303 to 379, 382 to 389, 392 to 395, 399 to 403. *Professional Papers*: Nos. 44 to 67. *Annual Reports*: 2d to 28th, 1880-81 to 1907.

Washington Astronomical Observations: 1881 to 1890.

Entomology: 1880-1885 (2 vols.).

Rocky Mountain Locusts (2 vols.).

Coast Survey Reports: 1872, 1886 to 1897-8, 1906.

Fish Commission Reports: Parts 3 to 29, 1877 to 1903.

Fish and Fisheries: 1904, 1905.

Nautical Almanac: 1885 to 1909.

SCIENTIFIC NOTES AND NEWS

A DEPARTMENT of experimental biology has been organized in the Rockefeller Institute. Professor Jacques Loeb, of the University of California, has been elected head of the department. He will begin his work at the Rockefeller Institute next autumn.

MR. GIFFORD PINCHOT has been elected president of the National Conservation Association. Dr. Charles W. Eliot, the first president of the association, has been elected honorary president.

A NATIONAL testimonial with a purse of \$10,000 for Commander Robert E. Peary is planned for the evening of February 8, at the Metropolitan Opera House, New York City. Governor Hughes will preside. Commander Peary will tell the story of his trip to the pole and show new pictures of the far north.

At a recent meeting of the board of trustees of Cornell University, in New York City, it was resolved on the motion of President Schurman that the secretary send the following telegram to Director Bailey: "The Trustees of Cornell University, assembled at the winter meeting, send cordial New Year's greeting to Director Bailey, and rejoice with him in the prospect of still greater work for the agricultural interests of the state, under

his leadership, in the College of Agriculture of Cornell University."

At a dinner given on January 18 in honor of Professor William James, professor emeritus of philosophy at Harvard University, a portrait of Professor James was presented to the university by the members of the division and by the visiting committee. The painting, which is by Miss Ellen Emmet, of New York, is of three-quarter length and life size. For the present it will hang in Emerson Hall, but eventually it will be placed in the faculty room of University Hall.

THE permanent portrait committee of the medical department of the University of Pennsylvania has, during the past few years, almost completed the collection of portraits of former professors in the Medical School. These portraits now hang in the halls and lecture rooms of the new medical laboratories and thus connect historically the new home of the medical department with memories and traditions of teachers of the past century and a half. Of the six professors not at present represented in this collection, one is Dr. Simon Flexner, who was professor of pathology for the years 1899 to 1903 and responsible, wholly or in part, for the instruction in pathology received by the classes of 1900 to 1905. A special committee consisting of representatives of these classes and of Dr. Flexner's associates and assistants during the years of his incumbency, has been appointed by the permanent portrait committee to take such action as may be necessary to procure Dr. Flexner's portrait.

ON his sixtieth birthday, January 14, Professor W. O. Crosby was presented with a silver loving cup by a number of present and past instructors in the department of geology of the Massachusetts Institute of Technology.

DR. RICHARD DEDEKIND, professor of mathematics in the Brunswick School of Technology, has been given an honorary doctorate of mathematics by the Zurich Polytechnicum.

OFFICERS of the Entomological Society of America have been elected as follows: *President*, Dr. John B. Smith; *First Vice-presi-*

dent, Dr. S. A. Forbes; *Second Vice-president*, Professor V. L. Kellogg; *Secretary-Treasurer*, C. R. Crosby; *Additional Members Executive Committee*, Professor J. H. Comstock, Dr. W. M. Wheeler, Mr. E. A. Schwarz, Professor L. Bruner, Rev. Professor C. J. S. Bethune, Professor J. M. Aldrich.

THE annual meeting of the council of the American Physical Education Association was held at the Rittenhouse Hotel, Philadelphia, on Saturday, January 1, 1910. The following officers were elected: *President*, Dr. George L. Meylan, Columbia University; *Secretary-editor-treasurer*, Dr. J. H. McCurdy, International Y. M. C. A. Training School, Springfield, Mass. The next convention of the association will be held in Indianapolis, March 1-3, in connection with the Department of Superintendents of the National Educational Association and the American School Hygiene Association.

DR. O. TETTENS, of Frankfort, has been appointed observer in the Aeronautical Observatory at Lindenberg, near Berlin.

DR. KARL GROOS, professor of philosophy and pedagogy at Giessen, has resigned his chair at the university.

DR. ALEXANDER G. RUTHVEN, of the University of Michigan, will conduct a zoological expedition to southern Mexico, during the coming summer.

DR. FREDERICK BEDELL, of the department of physics, at Cornell University, will spend the remainder of the year abroad on sabbatic leave.

DR. ALVIN S. WHEELER, associate professor of organic chemistry in the University of North Carolina, has been granted a year's leave of absence to study abroad. He will leave with his family for Germany on May 24.

DR. J. C. ARTHUR, of Purdue University, Indiana, is spending the month of January consulting the cryptogamic and phanero-gamic collections of Harvard University, while Mr. Frank D. Kern, of the same institution, is engaged in similar work at the New York Botanical Garden. It is expected that

another installment of the rusts of North America will soon be made ready for publication. As the rusts are strictly parasitic, the work requires an almost equal familiarity with the systematic position of fungi and the flowering hosts.

AT a stated meeting of the American Philosophical Society, on Friday evening, January 21, Dr. Ernest Fox Nichols, president of Dartmouth College, and late professor of experimental physics in Columbia University, read a paper entitled "Some Recent Investigations in Physics."

A JOINT meeting of the American Ethnological Society and the Section of Anthropology and Psychology of the New York Academy of Sciences was held at the American Museum of Natural History on Monday, January 24, when a public lecture was given by Professor Franz Boas, of Columbia University, on "The Changes in the Physical Characteristics of the Immigrants to the United States."

DR. L. A. BAUER addressed the students of physics and engineering at Northwestern University on January 12 and at the University of Cincinnati on January 14, his subject being "The Non-magnetic Yacht *Carnegie* and her Work."

ON January 14 Professor C. J. Keyser, of Columbia University, delivered a lecture at Princeton University on "Ways to Pass the Walls of the World; or, Scientific Speculations regarding the Figure and the Dimensions of Space."

AT McGill University the following are acting as special lecturers during the present session:

Professor J. F. Kemp, of Columbia University, on "The Application of Geology to certain Engineering Problems."

J. B. Tyrrell, Esq., F.G.S., on "The Geological Relations of Alluvial Gold Deposits, as Illustrated more Particularly by those of the Yukon District."

D. B. Dowling, Esq., of the Geological Survey of Canada, on "The Geology of Coal, with especial reference to the Coal Deposits of the Province of Alberta."

F. W. Cowie, Esq., C.E., chief engineer of the

Montreal Harbor Commission, on "The Construction and Development of Harbors."

WILLIAM GEORGE TIGHT, professor of geology and natural history at Denison University from 1887 to 1901 and since then until a few months ago president and professor of geology at the University of New Mexico, fellow of the Geological Society of America and of the American Association for the Advancement of Science, died at Glendale, Cal., on January 15, at the age of forty-five years.

Mr. William Abner Eddy, known for his work in aerial photography, has died at Bayonne, N. J., in his sixtieth year.

COLONEL GEORGE EARL CHURCH, born in Massachusetts in 1835, but latterly residing in England, known for his geographical work in various parts of the world, died on January 4.

DR. FRIEDRICH KOHLRAUSCH, author of the "Lehrbuch der praktischen Physik" and former president of the Physikalisch-Technische Reichsanstalt, died suddenly at his home at Marburg, Germany, on January 18.

DR. MORITZ GRESHOFF, director of the Colonial Museum at Haarlem, known for his work on physiological botany, has died at the age of forty-seven years.

THE late Darius Ogden Mills, of New York City, has bequeathed \$100,000 to the American Museum of Natural History; \$50,000 to the New York Botanical Garden and \$25,000 to the American Geographical Society of New York City.

THE first Hookworm Conference was held in Atlanta, Ga., on January 18 and 19. The conference opened with about 500 in attendance and a representation from twelve states. Dr. Henry F. Harris, secretary of the Georgia State Board of Health, was elected temporary chairman and Mr. William Whitford, of Chicago, secretary. The principal speaker was Dr. Charles Wardell Stiles, U. S. Public Health and Marine-Hospital Service, Washington, D. C. A permanent organization was effected under the name "Southern Health Conference."

THE Boston *Transcript* reports that four interconnected projects for fisheries exhibits

at South Boston are proposed. These are an aquarium, a fish culture station, a museum of the appliances, methods and industrial statistics of the fisheries, and a trade school for fishermen.

THE department of vertebrate paleontology of the American Museum of Natural History has received as a gift from Mr. Charles Lanier, one of the trustees, a skull of the Cretaceous dinosaur Triceratops. This specimen was collected in the Laramie Cretaceous of Seven-Mile Creek, Western County, Wyoming, about forty-five miles northwest of Edgemont, South Dakota, by Mr. Charles H. Sternberg.

THE Naples Table Association for Promoting Laboratory Research by Women announces that applications for the table supported by the association should be made before March 1. The fourth prize of \$1,000 for a thesis containing laboratory research in biological, chemical or physical science will be awarded in April, 1911. Further information may be obtained from Mrs. A. D. Mead, 283 Wayland Avenue, Providence, R. I.

MR. ROOSEVELT has written from Nairobi, under the date of December 15, 1909, the following letter to the secretary of the Smithsonian Institution:

I have to report that the Smithsonian Expedition under my charge has now finished its work in British East Africa and is about to leave for Uganda. The collections made in British East Africa include:

Mammals, large, in salt	550
Mammals, small, in salt	3,379
Birds	2,784
Reptiles and batrachians, about ..	1,500
Freshwater and marine fish, about	250
Total vertebrates	8,463

In addition the collections include a large number of mollusks and other invertebrates; several thousand plants; in the neighborhood of two thousand photos; anthropological materials, etc. Up to January 17 only a little over a quarter of the collections enumerated in Mr. Roosevelt's letter had reached the institution. In addition to the mammals mentioned by him, there have, however, already been received perhaps 150 skulls of large mammals which are

not associated with skins, these being picked up in the field for the study of the variations in individual specimens. Word has recently been received of the killing by Mr. Roosevelt of two specimens of the white rhinoceros, an adult female and calf. These will be of particular value to the museum which has no representative of this species in its collection.

CONSUL-GENERAL RICHARD GUENTHER, of Frankfort, writes that the Kosmos Association of Naturalists in Stuttgart, the Duerer League and the Austrian Imperial Association for Ornithology in Vienna have united in an address to the public calling for subscriptions to create a Natural Protective Park. This address was published last spring and since then has been followed up by a convention in Munich well attended by naturalists and scientific men from all parts of Germany. An organization was effected, called the Verein Naturschutzpark, with headquarters in Stuttgart. The plan is to create three large parks, one in the Alpine Mountain Range, one in the highlands of central Germany and the third in the low country of the north. The main object is to preserve and increase certain species of animal and plant life. The parks are expected to become centers of attraction and recreation for millions of people, natives and foreign visitors. The fee for membership to this park association will be quite low, to encourage hundreds of thousands to join.

UNIVERSITY AND EDUCATIONAL NEWS

THE trustees of Columbia University propose to remove the College of Physicians and Surgeons from its present location on West Fifty-ninth street to a commanding site on Morningside Heights, adjacent to the other schools of the university. A large part of the necessary land has been obtained by the gift of Messrs. William K. Vanderbilt, George J. Gould, Frank A. Munsey and a fourth anonymous contributor.

MR. J. S. HUYLER, of New York, has given \$20,000 to Syracuse University.

THE Commonwealth Edison Company of Chicago and the General Electric Company of Schenectady have jointly presented to the

department of electrical engineering of the University of Illinois a 125-kilowatt steam turbo-generator. The turbine of this unit is to be non-condensing. The generator is to be designed for 3-phase, 60-cycle currents, to be delivered at 2,300 volts. With the addition of this machine the electrical laboratory will be prepared to deal extensively with problems involving single-phase, quarter-phase and three-phase currents.

A MUSEUM of Industrial Chemistry has been established at the University of Illinois under the division of applied chemistry.

THE trustees of Cornell University have voted to meet the congestion in the department of chemistry by an extension of North Morse Hall westward a distance of about 40 feet, and the building committee was instructed to have the enlarged building ready for occupancy in September.

THE statement to the effect that Mrs. Phoebe A. Hearst has decided to erect for the University of California a museum of anthropology is incorrect. Mrs. Hearst explicitly denied the report the day after it appeared in the paper which first published the story.

AN anonymous donor has given to the University of Paris an annual income of 30,000 francs to found ten fellowships at foreign universities.

WE learn from the *Journal* of the American Medical Association that the council of the University of Paris and the Pasteur Institute have agreed to construct, at the joint expense of the two institutions, a laboratory for the study of the phenomena of radioactivity and their therapeutic applications. The projected laboratory will comprise two parts: one for scientific researches under the direction of Mme. Curie, the other for medical applications under the direction of the Pasteur Institute. The latter will contribute towards the expenses of construction and equipment of the institution 400,000 francs, from the Osiris legacy.

DR. WILLIAM HUNTINGTON, president of Boston University, proposes to retire at the end of the present academic year.